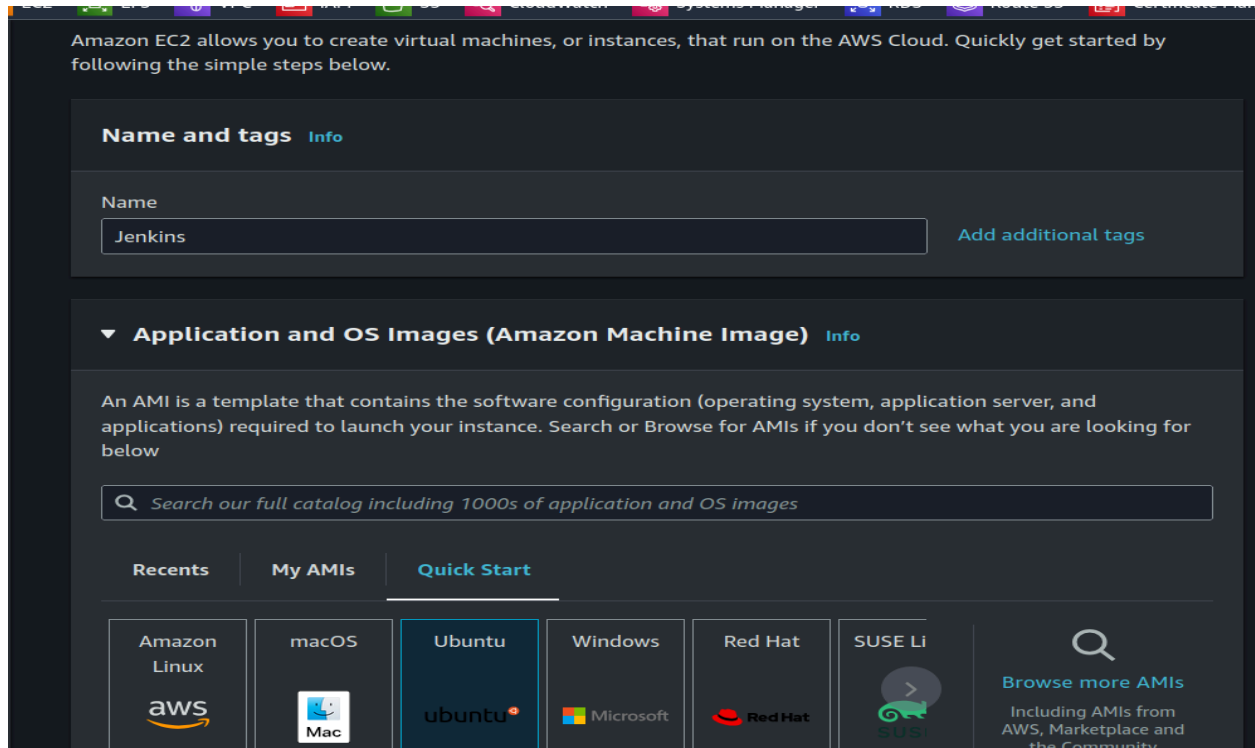
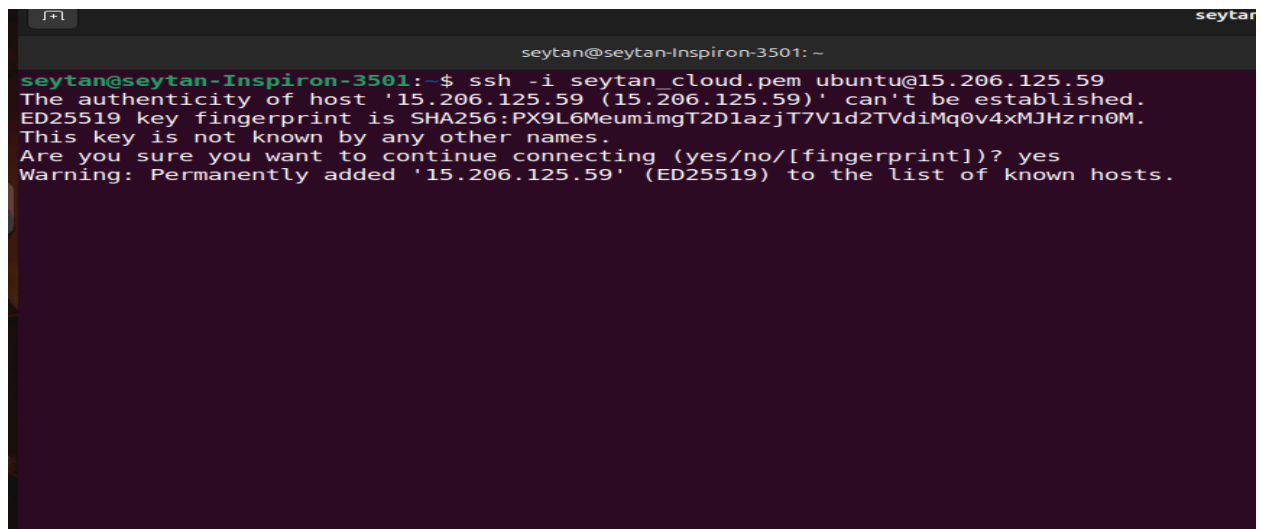


Task : Install and Setup Jenkins.

Step 1: Create and Launch an ec2 Instance.



Take ssh of it → `ssh -i private.pem user@public_ip`



Step 2: Install the Jenkins tool.

Commands

→ **sudo apt update -y**
sudo apt install fontconfig openjdk-17-jre -y

**sudo wget -O /usr/share/keyrings/jenkins-keyring.asc **
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
echo deb

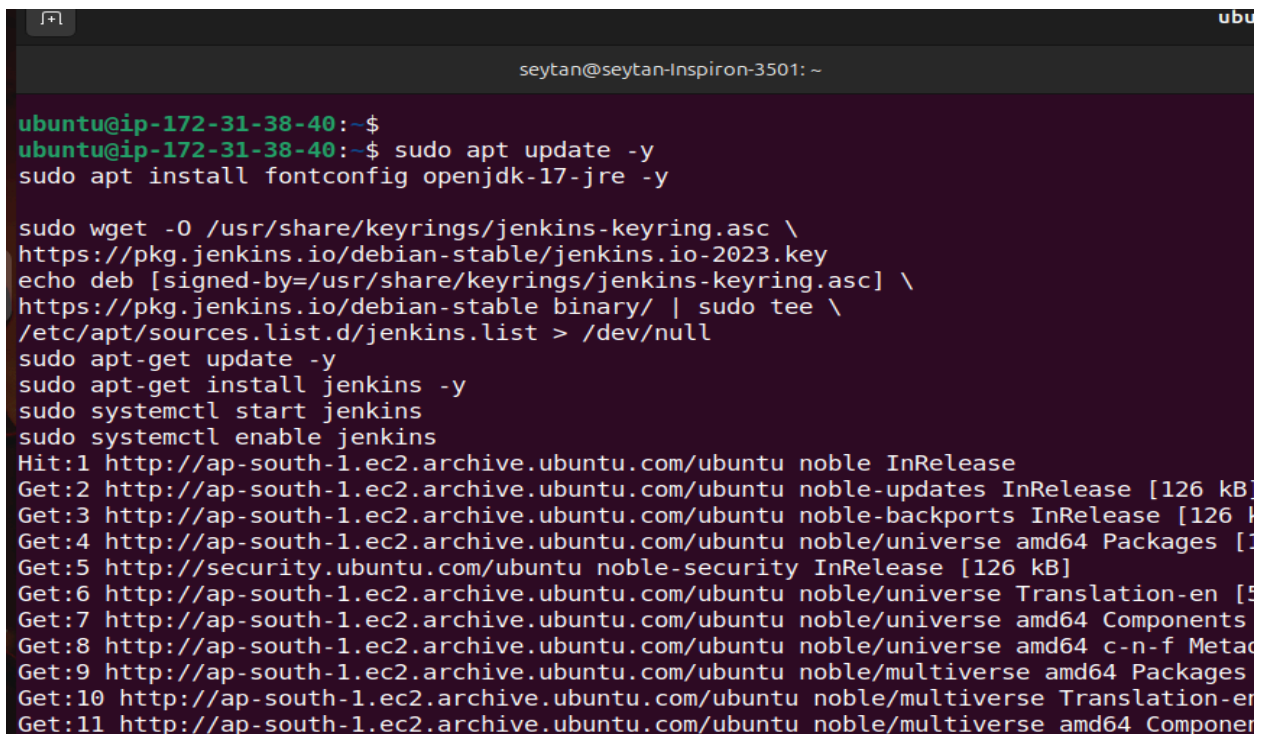
**[signed-by=/usr/share/keyrings/jenkins-keyring.asc] **
**https://pkg.jenkins.io/debian-stable binary/ | sudo tee **
/etc/apt/sources.list.d/jenkins.list > /dev/null

sudo apt-get update -y

sudo apt-get install jenkins -y

sudo systemctl start jenkins

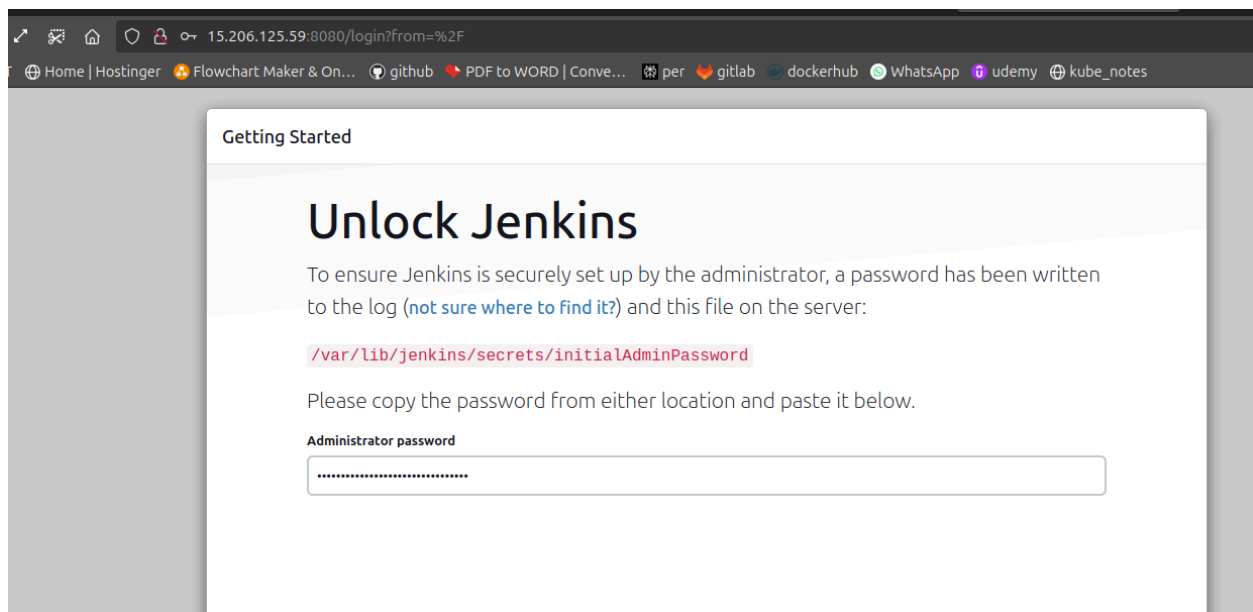
sudo systemctl enable jenkins

A terminal window screenshot showing the execution of commands to install Jenkins. The terminal title is 'seytan@seytan-Inspiron-3501: ~'. The commands and their outputs are as follows:
1. `ubuntu@ip-172-31-38-40:~$`
2. `ubuntu@ip-172-31-38-40:~$ sudo apt update -y`
3. `sudo apt install fontconfig openjdk-17-jre -y`
4. `sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \`
5. `https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key`
6. `echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \`
7. `https://pkg.jenkins.io/debian-stable binary/ | sudo tee \`
8. `/etc/apt/sources.list.d/jenkins.list > /dev/null`
9. `sudo apt-get update -y`
10. `sudo apt-get install jenkins -y`
11. `sudo systemctl start jenkins`
12. `sudo systemctl enable jenkins`
The output of the update command shows the following progress:
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [126 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [51.2 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [126 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [126 kB]
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [126 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [51.2 kB]
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [126 kB]

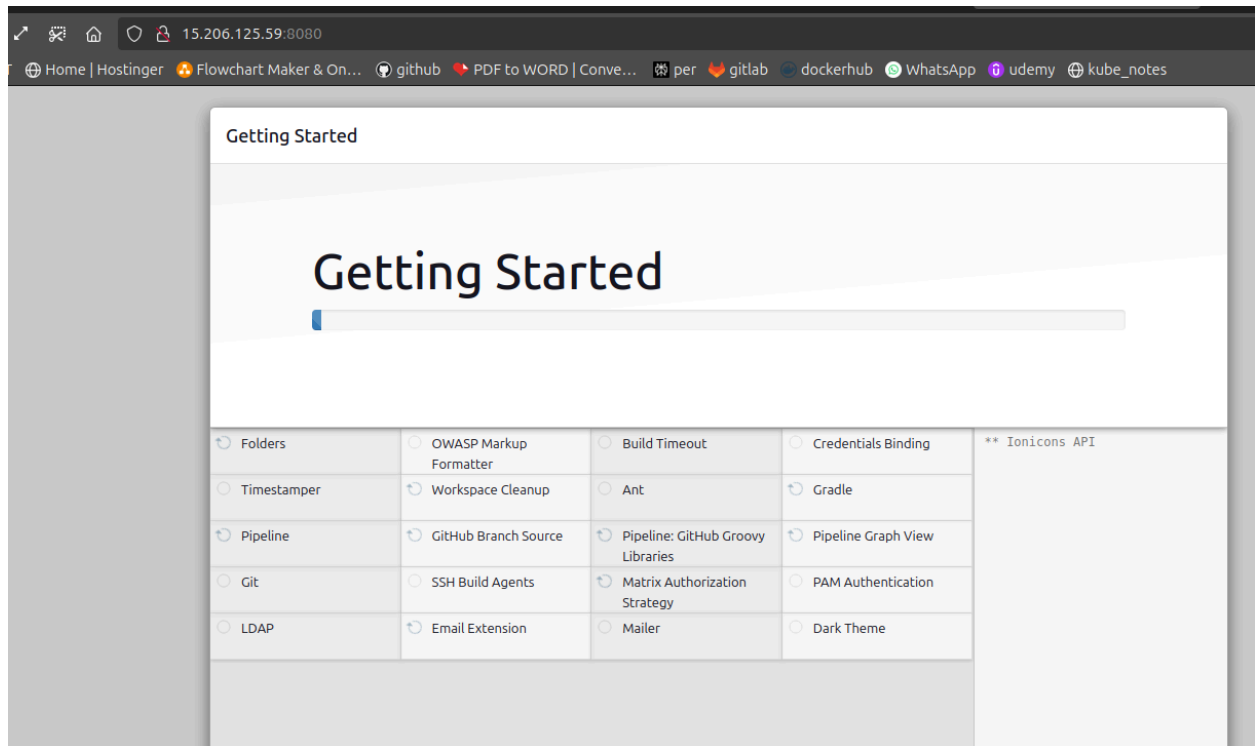
Step 3: Now Navigate to the /var/lib/jenkins/secrets folder and copy the password from initialAdminpassword file.

```
root@ip-172-31-38-40:~# cd /var/lib/jenkins/secrets/  
root@ip-172-31-38-40:/var/lib/jenkins/secrets# ls  
initialAdminPassword jenkins.model.Jenkins.crumbSalt master.key  
root@ip-172-31-38-40:/var/lib/jenkins/secrets# cat initialAdminPassword  
f59ff5930a01457abcf143a20321b852  
root@ip-172-31-38-40:/var/lib/jenkins/secrets# _
```

After this paste the public ip of instance in the web-browser and port 8080 which is default port of jenkins.



Step 4: Install the default plugins.



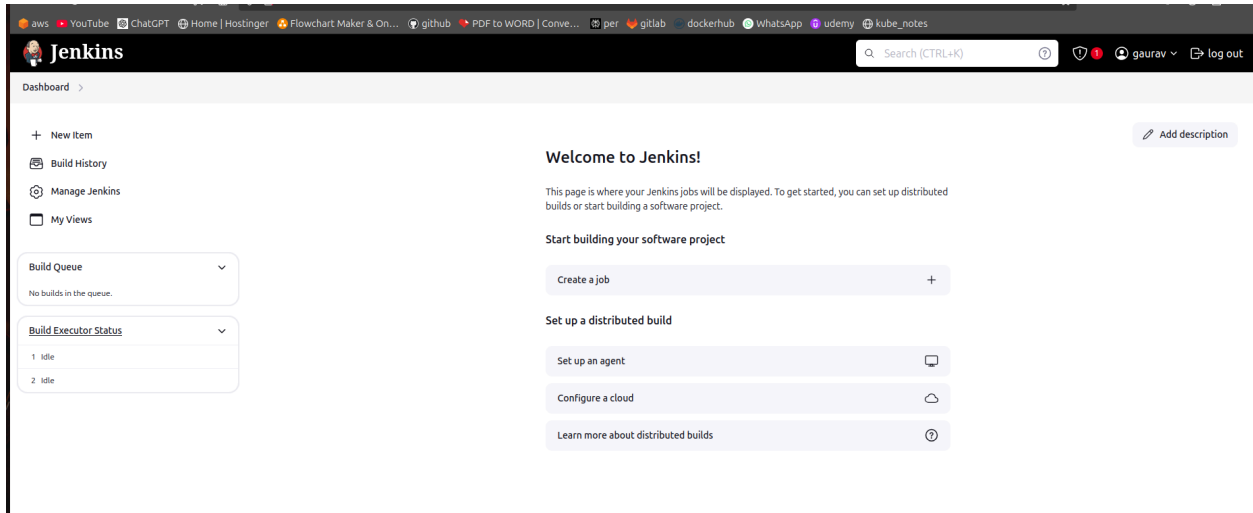
Step 5: After installing plugins it will ask to create admin user enter the details and continue.

The screenshot shows the Jenkins 'Create First Admin User' form. The form is titled 'Create First Admin User' and contains the following fields:

- Username: gaurav
- Password: *
- Confirm password: *
- Full name: gaurav
- E-mail address: admin@gmail.com

At the bottom of the form, there are two buttons: 'Skip and continue as admin' and 'Save and Continue'. The Jenkins version 'Jenkins 2.462.3' is displayed in the bottom left corner.

Output :



The screenshot displays the Jenkins web interface. At the top, a browser's address bar shows the URL 'https://jenkins.kube_notes.com/'. The Jenkins header includes the logo, a search bar, and a user profile for 'gaurav' with a 'log out' button. The main content area is divided into a left sidebar and a central panel. The sidebar contains links for 'New Item', 'Build History', 'Manage Jenkins', and 'My Views', along with two expandable sections: 'Build Queue' (showing 'No builds in the queue') and 'Build Executor Status' (showing two 'Idle' executors). The central panel features a 'Welcome to Jenkins!' message, a brief introduction to the dashboard, and three primary action buttons: 'Create a job', 'Set up an agent', and 'Configure a cloud'. A link to 'Learn more about distributed builds' is also present.

Jenkins

Dashboard >

+ New Item

Build History

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job

Set up a distributed build

Set up an agent

Configure a cloud

Learn more about distributed builds

Add description